

AA

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-017-06099

Farm name: Coastal Forest Resources Operator Well No.: Heirs Unit 1H

LOCATION: Elevation: 1,110' Quadrangle: New Milton 7.5'

District: New Milton County: Doddridge
Latitude: 8,739' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,223' Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Antero Resources Appalachian Corp

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1625 17th Street Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	418'	418'	481 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2,515'	2,515'	1024 Cu. Ft. Class A
Date Permit Issued: 6/12/2012	5-1/2" 20#	13,830'	13,830'	3394 Cu. Ft. Class H
Date Well Work Commenced: 8/13/2012				
Date Well Work Completed: 12/3/2012	2-3/8" 4.7#	7,151'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7131' TVD (deepest point drilled)				
Total Measured Depth (ft): 13,830' MD, 7120' TVD (BHL)				
Fresh Water Depth (ft.): est. 169'				
Salt Water Depth (ft.): est. 642', 895'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 240', 280', 320', 455', 655'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7030' TVD (Top)

Gas: Initial open flow _____ MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow 9,574 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure 3950 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Kurt Koh
Signature Date 4/19/13

06/21/2013

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL, Photo Density/Compensated Neutron/
Gamma Ray, Dual Laterolog/Gamma Ray

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,181' - 13,764' MD (1,368 holes)

Frac'd w/ 12,096 gals 15% HCL Acid, 139,262 bbls Slick Water carrying 609,599# 100 mesh, 2,456,579# 40/70 sand and 1,324,505# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered:	Top Depth	/	Bottom Depth
<u>Surface:</u>			
Big Lime	2110'		2196'
Big Injun	2197'		2446'
Gantz Sand	2447'		2626'
Fifty Foot Sandstone	2627'		2833'
Gordon	2834'		3183'
Fifth Sandstone	3184'		4012'
Balltown	4013'		4653'
Bradford	4654'		5116'
Benson	5117'		5364'
Alexander	5365'		6615'
Sycamore	6616'		6771'
Middlesex	6772'		6774'
Sonyea	6775'		6910'
Burket	6911'		6944'
Tully	6945'		7020'
Hamilton	7021'		7029'
Marcellus	7030'		7131' TVD